# BEST AVAILABLE COPY

## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9574 WO/JS/LA	FOR FURTHER see Form P	CT/ISA/220 pplicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/SE 2004/002003	22 December 2004	23 December 2003					
Applicant		LO DECEMBET 2003					
ABB Research Ltd et al							
This international search report has a applicant according to Article 18. A	peen prepared by this International Searching copy is being transmitted to the Internation	ng Authority and is transmitted to the al Bureau.					
This international search report consists of a total of sheets.							
It is also accompanied by a copy of each prior art document cited in this report.							
1. Basis of the report							
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
The international sea furnished to this Aut	arch was carried out on the basis of a trans hority (Rule 23.1(b)).	lation of the international application					
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
2. Certain claims were found unsearchable (see Box No. II)							
3. Unity of invention is lacking (see Box No. III)							
4. With regard to the title,							
x the text is approved as submitted by the applicant.							
the text has been established by this Authority to read as follows:							
		j					
5. With regard to the abstract,							
x the text is approved as sub	omitted by the applicant.						
the text has been establish	ed, according to Rule 38.2(h), hy this Author	prity as it appears in Box No. IV. The					
applicant may, within one comments to this Authorit	mount noin the date of mailing of this inte	rnational search report, submit					
6. With regard to the drawings,							
a. the figure of the drawings to be published with the abstract is Figure No. 1							
x as suggested by the applicant.							
as selected by this Authority, because the applicant failed to suggest a figure.							
as selected by this Authority, because this figure better characterizes the invention.  b. none of the figures is to be published with the abstract.							
b. none of the figures is to be	published with the abstract.						

Form PCT/ISA/210 (first sheet) (January 2004)

### INTERNATIONAL SEARCH REPORT

International application No. PCT/SE 2004/002003

A. CLASSIFICATION OF SUBJECT MATTER IPC7: H02H 3/02
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: H02H Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category\* 1-14 US 5867356 A (DUGGAL ET AL), 2 February 1999 X (02.02.1999), column 1, line 6 - line 11; column 4, line 8 - line 14, figure 1, claim 1 1-14 EP 0474186 A2 (HITACHI, LTD. ET AL), 11 March 1992 X (11.03.1992), column 1, line 5 - line 12; column 5, line 15 - column 6, line 21, figure 1 1-14 US 5689395 A (DUFFY ET AL), 18 November 1997 A (18.11.1997), figure 3 See patent family annex. Further documents are listed in the continuation of Box C. later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 1 8 -04- 2005 17 March 2005 Authorized officer Name and mailing address of the ISA/ Swedish Patent Office Tomas Erlandsson / MN Box 5055, S-102 42 STOCKHOLM Telephone No. +46 8 782 25 00 Facsimile No. +46 8 666 02 86

### INTERNATIONAL SEARCH REPORT

Information on patent family members

01/03/2005

International application No. PCT/SE 2004/002003

US	5867356	A	02/02/1999	NONE		
ЕР	0474186	A2	11/03/1992	SE CN CN DE JP KR US	0474186 T3 1032835 B,C 1059623 A 69129137 D,T 4112619 A 200432 B 5305174 A	18/09/199 18/03/199 03/12/199 14/04/199 15/06/199 19/04/199
US	5689395	A	18/11/1997	AT CN CN DE EP EP JP WO	253780 T 1080476 B,C 1201560 A 69630608 D,T 0850505 A,B 1361637 A 11512599 T 9710637 A	15/11/200 06/03/200 09/12/199 23/09/200 01/07/199 12/11/200 26/10/199 20/03/199